

CLAIMS

1. A car seat comprising, in a front part inside a seat cushion (1), a catching part (12, 15) extending in a widthwise direction of the seat cushion (1) and arranged such as to be movable up and down, and inertial force application means (13, 17) that is activated by an inertial force at the time of rapid deceleration to move the catching part (12, 15) upward.

10 2. The car seat according to claim 1, wherein:

the catching part (12, 15) is supported by a reinforcing member (2, 6, 10) inside the seat cushion (1) such that it is swingable up and down around a pivot shaft (7) on a rear side of a vehicle relative to the pivot shaft (7); and the inertial force application means (13, 17) includes an inertial mass part (17) arranged forward of the catching part (12, 15) and the pivot shaft (7) and above the pivot shaft (7) and a coupling part (13) for connecting the inertial mass part (17) and the catching part (15).

20 3. The car seat according to claim 1 or 2, wherein

the catching part (12, 15) is coupled to a support spring member (4) that supports a lower side of the seat cushion (1), using an elastic member (34) having a smaller maximum tension force than the inertial force that acts during rapid deceleration.

4. The car seat according to claim 1, comprising locking means (18, 21, 22, 44, 45, 61, 62, 63, 65, 66) for stopping downward movement of the catching part (12, 42, 15) that is moved upward by the inertial force during rapid 5 deceleration.

5. The car seat according to claim 4, wherein the locking means (18, 21, 22, 44, 45, 61, 62, 63, 65, 66) comprises: a locking member (45, 63, 66) that is always kept in contact with a support member (41) with biasing means 10 (46), the support member (41) coupling and supporting the catching part (15) and the inertial mass part (17) with each other; and an engagement portion (44, 61, 62, 65) formed to the support member (11, 41) to be engaged with the locking member (45, 63, 66) when the catching part (11, 15) moves more 15 than a predetermined distance.

6. The car seat according to claim 5, wherein: the support member (41) has two extensions from the pivot shaft (7) toward the catching part side (42) and the inertial mass part side (43); the latter (43) is substantially J-shaped 20 when viewed from one side of the vehicle; the locking member (45) is arranged on the front side of the vehicle relative to the support member (41); and a curved portion at the front end of the letter J of the support member (41) forms an engagement portion (44) to be engaged with the locking member (45).